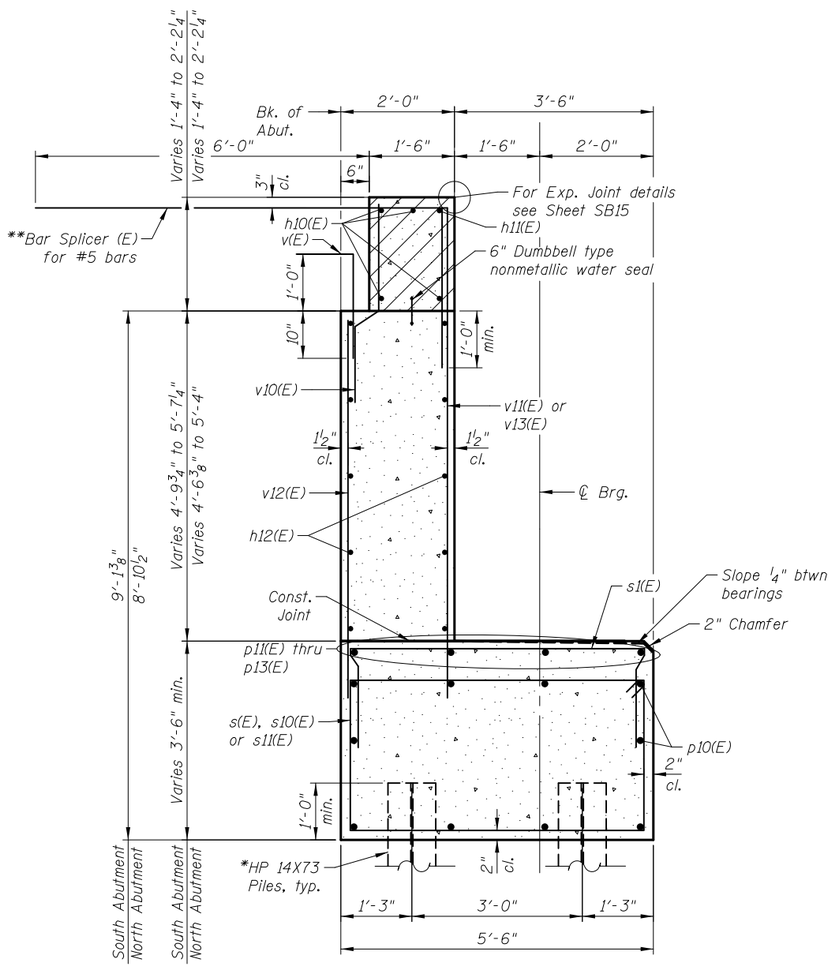
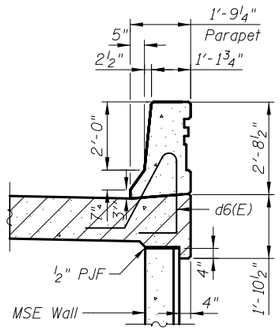
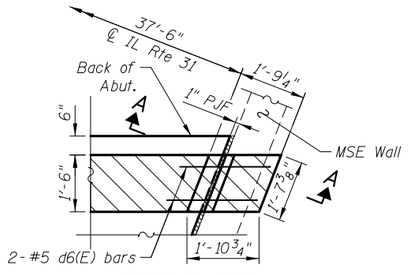


SECTION THRU ABUTMENT

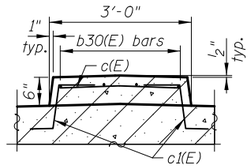


SECTION A-A

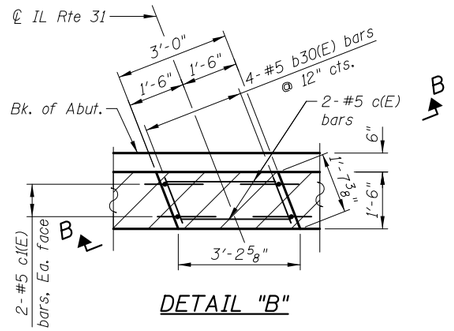


DETAIL "A"

(S. Abut. West Parapet shown, all other similar)



SECTION B-B

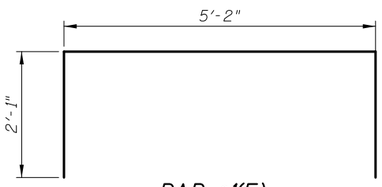


DETAIL "B"

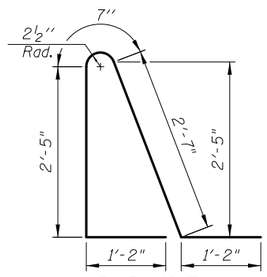
(S. Abut. shown, N. Abut. similar)

* Piles shall be driven prior to placement of the reinforced select fill and coated with coal tar epoxy from the bottom of the select fill to 1" above the base of the abutment. The cost of the coal tar epoxy coating shall be included with the cost of the Furnishing Piles.

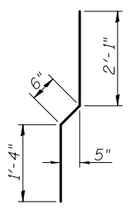
** Bar splicers shall be parallel to approach slab reinforcement.



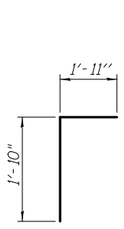
BAR s1(E)



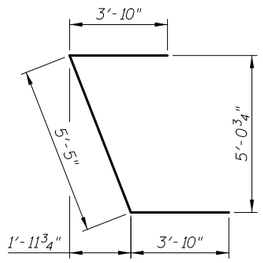
BAR d6(E)



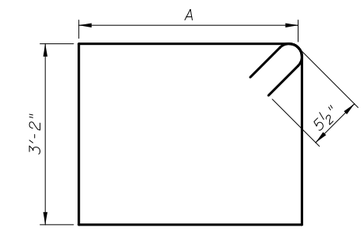
BAR v10(E)



BAR v(E)



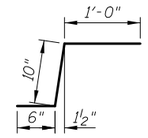
BAR u10(E)



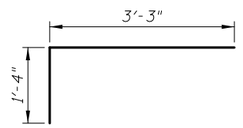
BAR s(E) & s10(E) thru s11(E)

Dimensions

Bar	A
s(E)	5'-2"
s10(E)	5'-6"
s11(E)	5'-4"



BAR c1(E)



BAR h4(E)

BILL OF MATERIAL

(for 2 Abutments)

Bar	No.	Size	Length	Shape
b30(E)	8	#5	1'-4"	
c(E)	4	#5	2'-11"	
c1(E)	8	#5	2'-4"	
d6(E)	8	#5	7'-11"	
h4(E)	8	#5	4'-7"	
h10(E)	24	#6	31'-0"	
h11(E)	6	#5	30'-6"	
h12(E)	60	#5	29'-5"	
h13(E)	8	#4	1'-4"	
p10(E)	60	#7	30'-11"	
p11(E)	8	#5	20'-0"	
p12(E)	8	#5	16'-10"	
p13(E)	8	#5	28'-7"	
s(E)	170	#5	17'-7"	
s1(E)	122	#4	9'-4"	
s10(E)	6	#5	18'-3"	
s11(E)	2	#5	17'-11"	
u10(E)	16	#6	13'-1"	
v(E)	162	#4	3'-9"	
v10(E)	162	#5	3'-11"	
v11(E)	81	#4	7'-10"	
v12(E)	162	#4	6'-7"	
v13(E)	81	#4	7'-7"	

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	193.3
Concrete Superstructure	Cu. Yd.	17.8
Bridge Deck Grooving	Sq. Yd.	26
Protective Coat	Sq. Yd.	27
Reinforcement Bars, Epoxy Coated	Pound	14,830
Furnishing Steel Piles HP 14X73	Foot	4,080
Driving Piles	Each	4,080
Test Pile Steel HP 14x73	Each	2
Pile Shoes	Each	50
Concrete Sealer	Sq. Ft.	1,380

Bars indicated thus 9x2-#5 etc. indicates 9 lines of bars with 2 lengths per line.

Notes:

Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

Parapet area to be poured with the Approach slabs.

Space reinforcement in cap to miss anchor bolts.

Pour steps monolithically with cap.

For details of Bar Splicers see sheet SB28.

For Pile Details see sheet SB23.

Concrete Sealer shall be applied to the designated areas of the backwalls and bridge seats of the abutments.

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DESIGNED - D. ATKINS	REVISED -	
CHECKED - G. HATLESTAD	REVISED -	
DATE - 5/3/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS
ILLINOIS ROUTE 31 OVER ALGONQUIN ROAD
STRUCTURE NO. 056-0081
SHEET NO. SB22 OF SB32 SHEETS

O.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0003	18A-2	MCHENRY	825	515
		CONTRACT NO. 60F72		
	ILLINOIS FED. AID PROJECT			

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